

AMENDMENTS TO THE CLAIMS:

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

Claim 1. (Cancelled)

2. (withdrawn) An electric motor and a generator which is constituted using the electric motor as a power source and is used in an electric power line, characterized in that

in a case of a power generation function, the generator is activated and is risen up near to a synchronous speed and the generator is carried out a switch-on operation;

in a case of an electric power generation function, the electric motor is made once in non-load condition and is activated and is risen up near once to a synchronous speed from a stop condition and the generator is carried out a switch-on operation; and

thereby an induction motor excited on an electric power system line or an alternating current is constituted.

3. (withdrawn) A fluid machine having a blade or a water turbine and a rotating machine, characterized in that

in a case of a propelling machine, a twist angle is made reversal, and

in a case of a centrifugal machine, an intake port of the fluid is changed over from an air inhale side to an air exhaust side;

thereby without an alternation of a control circuit, a fluid transportation function is changed over to a power generation system.

4. (withdrawn) An electric motor and a generator which is constituted using the electric motor as a power source and is used in an electric power line, characterized in that

in every case of a power generation function and a complex function of the electric motor and the generator,

when a stop or a power function is changed over to a power generation system, data necessary to control a load condition, an outside portion power condition, a power condition of an outside generator etc. are detected by a sensor; and

in accordance with the detected data the stop or the power function is changed over to the power generation system, thereby a whole system is operation-controlled.

5. (withdrawn) A wind power generation system having an electric motor and a generator for sending air using a blade and for carrying out a wind power generation by taking air into from all direction, characterized in that

a wind direction guide is installed; and

an induction motor is constituted as a main electric machine.

6. (withdrawn) A wind power generation system having an electric motor and a generator for sending air using a blade and for carrying out a wind power generation, and having an electric motor and a generator, characterized in that

an inclined magnetic field is formed in a flow passage using one selected from a single permanent magnet, a single electromagnet, plural permanent magnets and plural electromagnet; and

air is moved always according to oxygen in the air and the inclined magnetic field.

7. (withdrawn) A fluid power generation system having a fluid machine constituted by a blade, a water turbine and a rotating machine, and having an electric motor and a generator, characterized in that

in a case of a single power generation function, the system is activated as the electric motor and the electric motor is risen up near to a synchronous speed; and

in a case of a complex function of the electric motor and the generator, a rotation magnetic field is varied electrically, and the system is activated as the electric motor and the electric motor is risen up near to a synchronous speed.

8. (withdrawn) A rotating machine having a stator and a rotor, characterized in that

a single conductive member or plural conductive members are provided with a sandwich shape in a laminated iron core; and

on an outer peripheral portion of the conductive member, a groove is provided to not flow current shortly between rotor bars.

9. (withdrawn) A rotating machine having a stator and a rotor, characterized in that

a single disc member or plural disc member are provided in a laminated iron core of the rotor; and

the laminated iron core of the rotor is projected from an axial direction length of an iron core of the stator.

10. (withdrawn) A rotating machine according to claim 9, characterized in that an extension portion of a rotor bar is formed on an outer peripheral portion of an end ring;

thereby a magnetic field of an overhang portion of the laminated iron core of the rotor is formed validly.

11. (Currently Amended) A system having an electric device which functions both as an electric motor for driving machines and [[for]] as a generator to generate electrical power generation, comprising:

said electric ~~motor~~ device, wherein said electric ~~motor~~ device has structure to function as an electric motor for driving a machine; and

a power source for ~~supplying power to driving~~ the electric ~~motor~~ device,

wherein when said power source supplies mechanical power to the electric

~~motor such that said electric motor generates~~ device, the device functions as an electrical generator to generate electrical power, whereby the electric ~~motor can both~~ device can respectively function as an electric motor to drive the machine and as a generator to generate electrical power.

12. (Currently Amended) The system according to claim 11, further comprising said machine, adapted to be driven by said electric device when said electric device functions as said electric motor.

13. (Currently Amended) The system according to claim 12, wherein said electric device, when functioning as an electric motor, is an alternating current electric motor, and said machine is selected from the group consisting of machine tools and compressors; and wherein the system further comprises another power source for generating a mechanical power, said another power source being at least one selected from the group consisting of a direct current electric motor, an internal combustion engine, a source of wind power, a source of hydraulic power and a source of manually-generated power.

14. (Currently Amended) The system according to claim 11, wherein said electric device, functioning as a generator, ~~motor~~ is electrically connected to an electric power line.

15. (Currently Amended) The system according to claim 11, wherein when

the electric device, functioning as a generator, ~~motor~~ generates electrical power, the electric ~~motor~~ device is in a non-load condition and has a speed near a synchronous speed, raised from a stopped condition; and wherein said electric device, in functioning as an electric motor, is an induction motor.

16. (Currently Amended) The system according to claim 11, further comprising sensors for detecting conditions of the system, thereby obtaining detected data; and when the electric ~~motor~~ device changes from a stopped status or a status of driving the machine to a status of generating electrical power, the stopped status or status of driving the machine is changed over to the electrical power generation based upon the detected data, whereby the system is operation-controlled.

17. (Previously Presented) The system according to claim 16, wherein said sensors detect a load condition and power supplied by said power source.

18. (Currently Amended) A system having an electric device which functions both as an electric motor for driving a machine and as a generator for electrical power generation, comprising:

said electric ~~motor~~ device, wherein said device has structure to function as an electric motor ~~has a structure~~ for driving said machine;

a first power source for supplying electrical power to said electric device such that the device functions as an electric motor, wherein said first power source

supplies electric power to said electric motor such that said electric motor generates ~~electrical~~ mechanical power, whereby said electric motor can ~~both~~ drive said machine and ~~generate electric power~~;

a driving-motor for supplying mechanical power to said electric ~~motor~~ device to use said electric ~~motor~~ device as a generator; and

a second power source for supplying mechanical power to said driving-motor.

19. (Currently Amended) The system according to claim 18, wherein said electric device, when functioning as an electric motor, is an alternating current electric motor; said machine is selected from the group consisting of machine tools and compressors; and said second power source for supplying mechanical power is at least one selected from the group consisting of a direct current electric motor, an internal combustion engine, a source of wind power, a source of hydraulic power and a source of manually-generated power.